

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-32-W-CLWG-UNV-L850-CD4-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34178)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-W-CLWG-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD
DISTRIBUION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

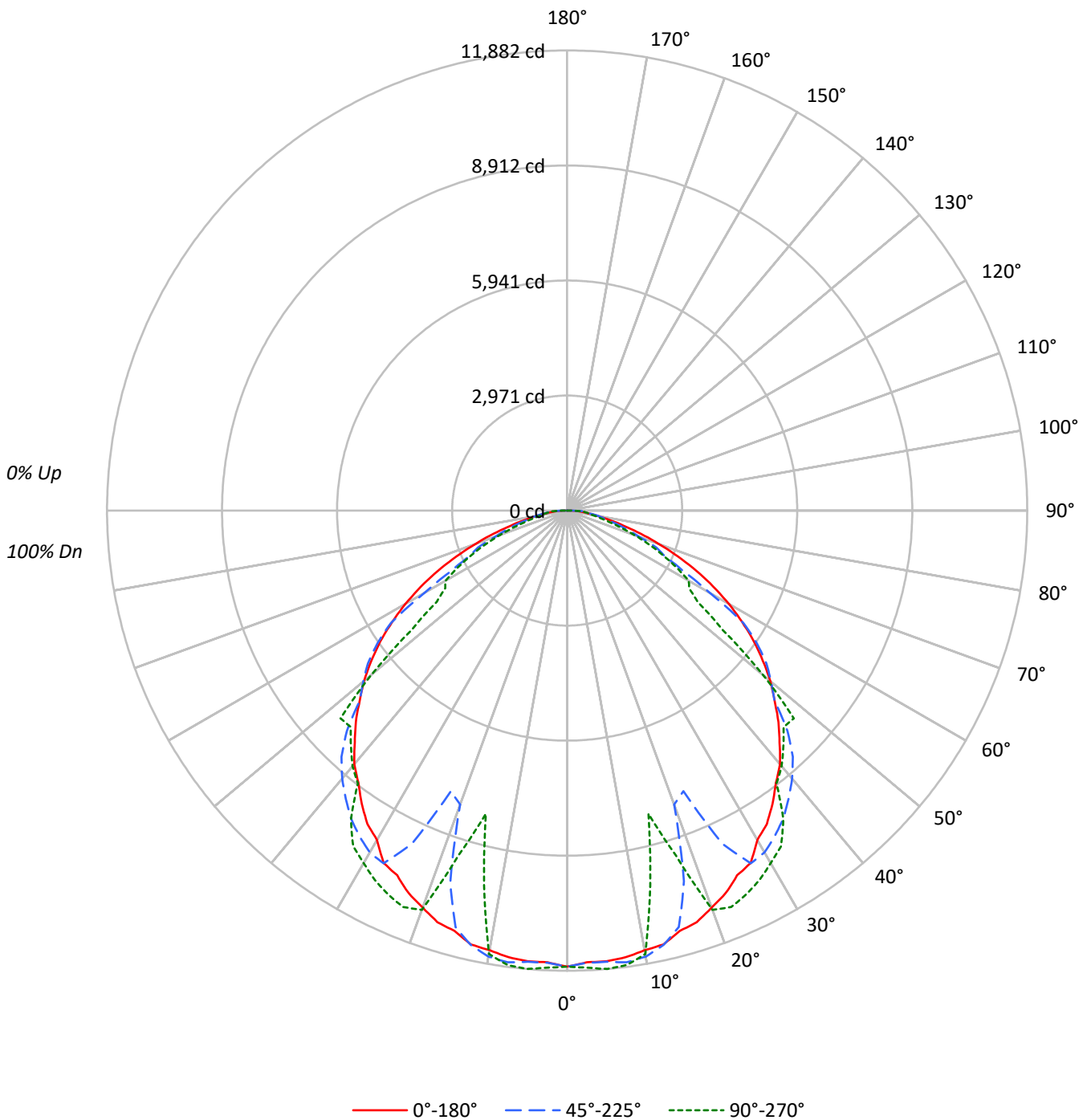
Lumens per Lamp: N/A
Luminaire Lumens: 30492.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17284	17284	17284
5°	17195	17100	17341
10°	17145	17167	17000
15°	17020	16541	11967
20°	16962	12232	16483
25°	16730	14784	16856
30°	16523	16457	16760
35°	16418	16432	16209
40°	16214	16155	15129
45°	15823	15381	14789
50°	15404	14231	13365
55°	14802	13640	9101
60°	13857	10911	8954
65°	12463	8121	7713
70°	10446	6925	6123
75°	8185	5551	4507
80°	6229	4732	3439
85°	5636	4030	3448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1118.0	3.7
10°-20°	2963.2	9.7
20°-30°	4724.7	15.5
30°-40°	5670.8	18.6
40°-50°	6031.0	19.8
50°-60°	4934.1	16.2
60°-70°	3128.3	10.3
70°-80°	1445.2	4.7
80°-90°	476.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8805.9	28.9
0°-40°	14476.7	47.5
0°-60°	25441.8	83.4
0°-90°	30492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	30492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11775	11775	11775	11775	11775	
5°	11683	11688	11693	11785	11882	###
15°	11238	11412	11136	8773	8105	3185
25°	10390	10420	9495	10841	10938	4813
35°	9243	6929	9722	9906	9737	5775
45°	7718	7752	8047	7848	7902	5945
55°	5888	6198	5984	4638	4111	5243
65°	3685	3748	2770	2789	2740	3633
75°	1511	1433	1293	1196	1118	1655
85°	382	416	474	474	460	413
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11775.2	11775.2	11775.2	11775.2	11775.2
2.5°	11673.5	11692.9	11688.0	11775.2	11813.9
5°	11683.2	11688.0	11692.9	11784.9	11881.7
7.5°	11629.9	11731.6	11765.5	11731.6	11833.3
10°	11528.3	11620.2	11692.9	11591.2	11625.1
12.5°	11475.0	11610.6	11489.5	10990.8	9906.3
15°	11237.7	11412.1	11136.1	8773.3	8105.1
17.5°	11140.9	11257.1	10037.0	8066.4	9330.1
20°	10908.5	11068.3	8076.1	10371.1	10971.4
22.5°	10695.5	10811.7	7838.8	10908.5	11078.0
25°	10390.4	10419.5	9494.7	10840.7	10937.6
27.5°	10259.7	9824.0	10269.4	10700.3	10753.6
30°	9819.1	8923.4	10191.9	10506.6	10511.5
32.5°	9596.4	7771.0	9974.0	10225.8	10279.1
35°	9242.9	6928.6	9722.3	9906.3	9736.8
37.5°	8855.6	6807.5	9388.2	9291.4	8879.8
40°	8550.6	7427.3	9039.6	8439.2	8618.3
42.5°	8119.6	7804.9	8623.2	8231.0	8264.9
45°	7717.8	7751.7	8047.0	7848.5	7901.8
47.5°	7262.7	7485.4	7257.8	7519.3	7940.5
50°	6846.3	7083.5	6870.5	7301.4	6613.9
52.5°	6371.8	6667.1	6488.0	5873.1	5074.2
55°	5887.6	6197.5	5984.4	4638.4	4110.7
57.5°	5359.8	5616.5	5393.7	3800.8	3733.0
60°	4822.4	5025.8	4270.4	3461.9	3626.5
62.5°	4255.9	4381.8	3369.9	3190.7	3181.0
65°	3684.6	3747.5	2769.5	2788.9	2740.4
67.5°	3089.0	3118.1	2493.5	2362.8	2290.2
70°	2517.7	2498.4	1994.8	1922.2	1854.4
72.5°	1994.8	1902.8	1622.0	1525.2	1442.8
75°	1510.6	1433.2	1292.8	1195.9	1118.4
77.5°	1123.3	1079.7	1011.9	1021.6	857.0
80°	789.2	794.1	832.8	706.9	658.5
82.5°	547.1	576.2	595.5	585.9	571.3
85°	382.5	416.4	474.5	474.5	460.0
87.5°	193.7	285.7	382.5	406.7	397.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)